



DEPARTMENT OF THE ARMY
SAVANNAH DISTRICT, CORPS OF ENGINEERS
100 WEST OGLETHORPE AVENUE
SAVANNAH, GEORGIA 31401-3604

November 4, 2016

Regulatory Division
SAS-2016-00044

Ms. Margaret Robinson
American Towers, LLC
10 Presidential Way
Woburn, Massachusetts 01801

Dear Ms. Robinson:

I refer to the Pre-Construction Notification submitted on September 21, 2016, requesting verification for use of Nationwide Permit (NWP) No. 14 for impacts to 0.0106 acres of wetland with improvements to an existing utility easement access road. The project is located on the western portion of an approximately 3.303-acre parcel (Tax Parcel: 203 064), South Highway 199, north of a portion of Interstate 16, and south of a portion of Papermill Road, in Laurens County, Georgia (Latitude: 32.486124, Longitude: -82.830257). The request was submitted on your behalf by George T. Swearingen. This project has been assigned number SAS-2016-00044 and it is important that you refer to this number in all communication concerning this matter.

We have completed coordination with other federal and state agencies as described in Part C (31)(d) of our NWP Program, published in the February 12, 2012, Federal Register, Vol. 77, No. 34, Pages 10184-10290 (77 FR). The NWPs and Savannah District's Regional Conditions for NWPs can be found on our website at <http://www.sas.usace.army.mil/Missions/Regulatory/Permitting/GeneralPermits/NationwidePermits.aspx>. During our coordination procedure, no adverse comments regarding the proposed work were received.

Waters of the United States were verified by letter dated June 2, 2016. As a result of our evaluation of your project, we have determined that the proposed activity is authorized under NWP 14, as described in Part B of the NWP Program. Your use of this NWP is valid only if the activity is conducted in accordance with the information submitted and meets the conditions applicable to the NWP, as described at Part C of the NWP Program, the Savannah District's Regional Conditions for NWPs, and the following special conditions:

1. You shall notify the Corps, in writing; at least 10 days in advance of commencement of work authorized by this permit

2. You shall install and maintain erosion and sediment control measures for all fill material that is authorized to be discharged in streams, wetlands and other waters of the United States, in accordance with the Georgia Erosion and Sedimentation Control Act of 1975, as amended, and permanently stabilize fill areas at the earliest practicable date.

3. You shall install and maintain erosion and sediment control measures in upland areas of the project site, in accordance with the Georgia Erosion and Sedimentation Control Act of 1975, as amended, to minimize the introduction of sediment into and the erosion of streams, wetlands and other waters of the United States. This permit does not authorize installation of check-dams, weirs, rip-rap, bulkheads or other erosion control measures in streams, wetlands or other waters of the United States. Authorization would be required from the U.S. Army Corps of Engineers prior to installing any erosion control measures in waters of the United States.

4. All work conducted under this permit shall be located, outlined, designed, constructed and operated in accordance with the minimal requirements of the Georgia Erosion and Sedimentation Control Act of 1975, as amended. Utilization of plans and specifications contained in the "Manual for Erosion and Sediment Control," (Latest Edition), published by the Georgia Soil and Water Conservation Commission, will aid in achieving compliance with the aforementioned minimal requirements.

5. You must fill out and sign the enclosed certification and return it to our office within 30 days of completion of the activity authorized by this permit.

This proposal was reviewed in accordance with Section 7 of the Endangered Species Act. Based on the information we have available, we have determined that the project would have no effect on any threatened or endangered species nor any critical habitat for such species. Authorization of an activity by a NWP does not authorize the "take" of threatened or endangered species. In the absence of separate authorization, both lethal and non-lethal "takes" of protected species are in violation of the Endangered Species Act. See Part (C) of 77 FR for more information.

This verification is valid until the NWP is modified, reissued or revoked. All of the existing NWPs are scheduled to expire on March 18, 2017. It is incumbent upon you to remain informed of changes to the NWPs. Furthermore, if you commence or are under contract to commence this activity before the date that the relevant NWP is modified or revoked, you will have 12 months from the date of the modification or revocation of the NWP to complete the activity under the present terms and conditions of this NWP.

This authorization should not be construed to mean that any future projects requiring Department of the Army authorization would necessarily be authorized. Any new proposal, whether associated with this project or not, would be evaluated on a case-by-case basis. Any prior approvals would not be a determining factor in making a decision on any future request.

Revisions to your proposal may invalidate this authorization. In the event changes to this project are contemplated, I recommend that you coordinate with us prior to proceeding with the work.

This communication does not relieve you of any obligation or responsibility for complying with the provisions of any other laws or regulations of other federal, state or local authorities. It does not affect your liability for any damages or claims that may arise as a result of the work. It does not convey any property rights, either in real estate or material, or any exclusive privileges. It also does not affect your liability for any interference with existing or proposed federal projects. If the information you have submitted and on which the Corps bases its determination/decision of authorization under the NWP is later found to be in error, this determination may be subject to modification, suspension, or revocation.

A copy of this letter is being provided to the following party: Mr. George T. Swearingen, III, 326 Tryon Road, Raleigh, North Carolina 27603.

Thank you in advance for completing our on-line Customer Survey Form located at http://corpsmapu.usace.army.mil/cm_apex/f?p=regulatory_survey. We value your comments and appreciate your taking the time to complete a survey each time you have interaction with our office.

- 4 -

If you have any questions, please call Meredith Allen, Project Manager, Coastal Branch, at 912-652-5503.

Sincerely,

A handwritten signature in black ink, appearing to read "Will. Rutlin".

William M. Rutlin
Chief, Coastal Branch

Enclosures

Regulatory Division

CERTIFICATION OF COMPLIANCE
WITH
DEPARTMENT OF THE ARMY
NWP 14

PERMIT FILE NUMBER: SAS-2016-00044

PERMITTEE ADDRESS: Ms. Margaret Robinson, American Towers, LLC, 10
Presidential Way, Woburn, Massachusetts 01801.

LOCATION OF WORK: The project site is located on the western portion of an
approximately 3.303-acre parcel (Tax Parcel: 203 064), South Highway 199, north of a
portion of Interstate 16, and south of a portion of Papermill Road, in Laurens County,
Georgia (Latitude: 32.486124, Longitude: -82.830257).

PROJECT DESCRIPTION: To discharge fill in 0.0106 acre of waters of the United
States in association with improvements to an existing utility easement access road.

ACRES AND/OR LINEAR FEET OF WATERS OF THE UNITED STATES IMPACTED:
0.0106 acre

DATE WORK IN WATERS OF UNITED STATES COMPLETED:

COMPENSATORY MITIGATION REQUIRED: No

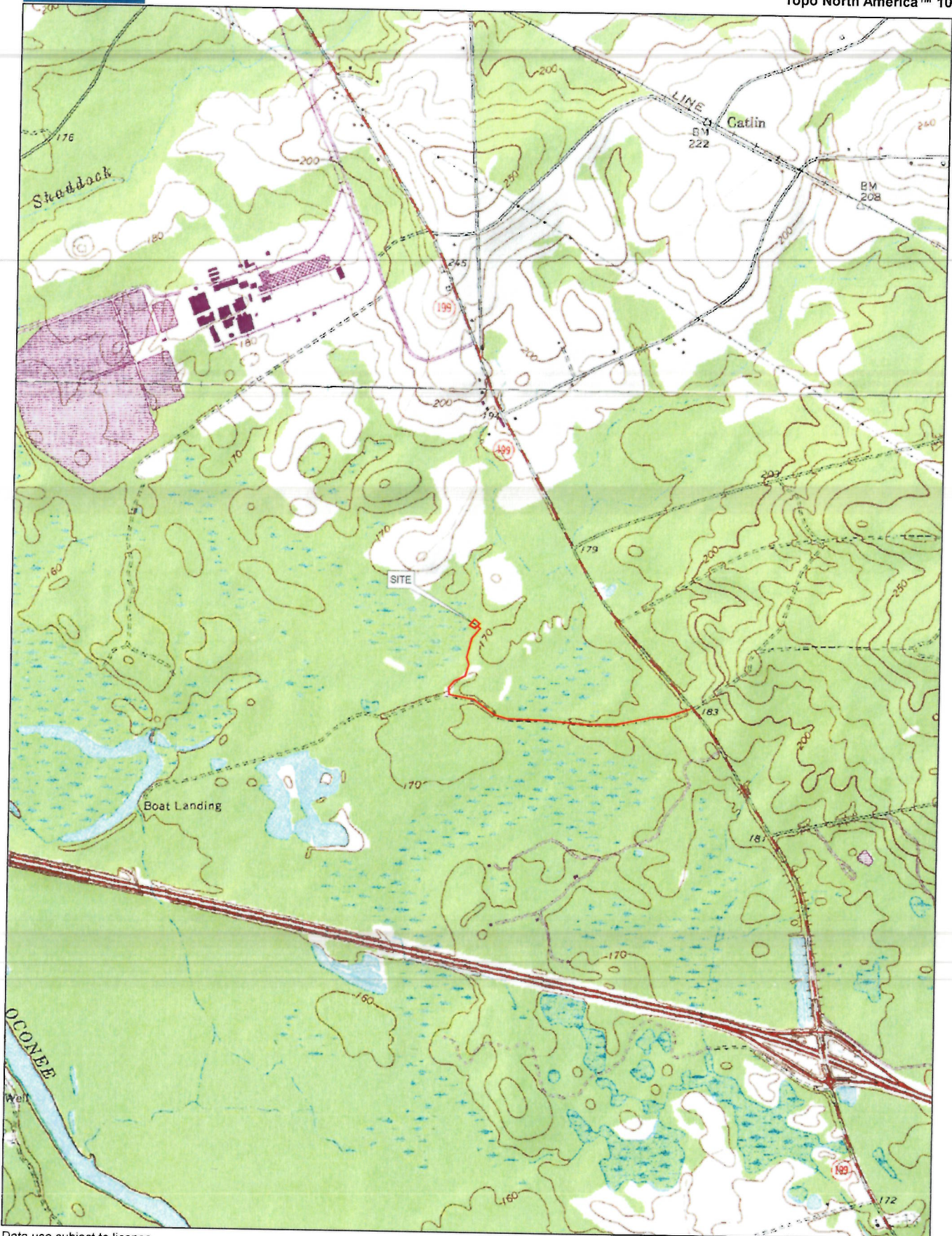
DATE MITIGATION COMPLETED OR PURCHASED (include name of bank): N/A

I understand that the permitted activity is subject to a U.S. Army Corps of Engineers'
Compliance Inspection. If I fail to comply with the permit conditions at Part C of the
Nationwide Permit Program, published in the February 12, 2012, Federal Register, Vol.
77, No.34, Pages 10184-10290, it may be subject to suspension, modification or
revocation.

I hereby certify that the work authorized by the above referenced permit as well as any
required mitigation (if applicable) has been completed in accordance with the terms and
conditions of the said permit.

Signature of Permittee

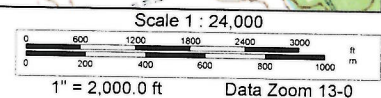
Date



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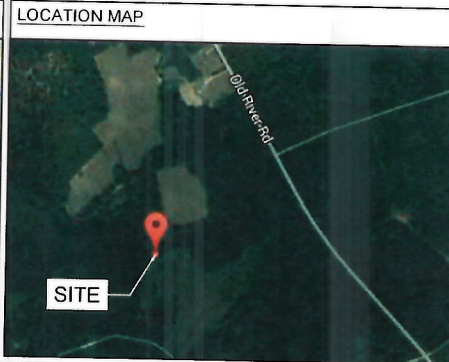
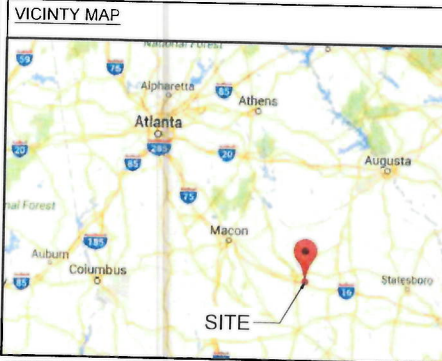




DEVELOPER:
TELECOM DEVELOPMENT SERVICES LLC

SITE NAME:
PCT SE PAPER GA
SITE NUMBER: 201440

PROJECT DESCRIPTION
**RAWLAND
150' MONOPOLE**
TOTAL TOWER HEIGHT INCLUDING THE APURTENANCE - 155' AGL



DRIVING DIRECTIONS FROM ATLANTA:

Take I-75 S/I-85 S	67.9 mi
Continue to follow I-75 S	
Keep left at the fork to stay on I-75 S	12.7 mi
Use the left lane to take exit 165 for I-16 E toward Jim L. Gillis Hwy/Savannah	0.6 mi
Continue onto I-16 E	57.1 mi
Take exit 58 for GA-199 toward Dublin E	0.3 mi
Turn left onto GA-199 E	1.2 mi
Turn left and site will be on the right	0.7 mi

PROJECT SUMMARY

SITE ADDRESS	S HWY 199 DUBLIN, GA 31027
LATITUDE	32° 29' 24.2"
LONGITUDE	82° 50' 00.4"
PARCEL ID	PORTION OF 203 054
ZONING CLASSIFICATION	A
ZONING JURISDICTION	LAURENS COUNTY
PROPERTY OWNER	PLUM CREEK TIMBERLANDS LP GLENN JOHNSON 706-583-6726
TOWER OWNER	AMERICAN TOWER CORPORATION 10 PRESIDENTIAL WAY WOBURN, MA 01801 TEL 1-781-926-4500
ENGINEER	TOWERSOURCE, INC. 1875 OLD ALABAMA ROAD, ROSVELL, GA 30076 678-990-2338 ELIZABETH B USHER P.E. GSWCC LEVEL II 0000068690
CONTACT	MICHAEL "KEITH" SKIPPER CONSTRUCTION MANAGER NETWORK DEVELOPMENT-SE AMERICAN TOWER CORPORATION CELL 850-529-9275
TELEPHONE COMPANY	AT&T 888-757-8500
POWER COMPANY	GA POWER 888-660-5850

SHEET INDEX

NO.	DESCRIPTION
T1	TITLE SHEET
—	SURVEY
A1	AERIAL MAP
C1	GENERAL NOTES
C2	OVERALL SITE PLAN
C3	DETAILED SITE PLAN
C4	TOWER ELEVATION
C5	GRADING & EROSION CONTROL PLAN
C5B	GRADING & EROSION CONTROL PLAN
C5C	GRADING & EROSION CONTROL PLAN
C5D	GRADING & EROSION CONTROL PLAN
C5E	GRADING & EROSION CONTROL PLAN
C6	ROAD PROFILE DETAILS
C7	MAINTENANCE NOTES
C8	GRADING & SEDIMENT CONTROL NOTES
C9	FENCE DETAILS
E1	ELECTRICAL NOTES & ONE-LINE DIAGRAM
E2	ELECTRICAL PLAN
E3	GROUNDING SITE PLAN
E4	GROUNDING DETAILS
E5	METER DETAILS

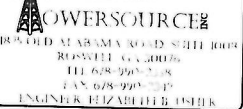
TOWER OWNER:



DEVELOPER:

TELECOM DEVELOPMENT
SERVICES LLC

A&E FIRM:



THE INFORMATION CONTAINED IN THIS
SET OF DOCUMENTS IS PROPRIETARY
BY NATURE, ANY USE OR DISCLOSURE
OTHER THAN THAT WHICH RELATES
TO THE CLIENT IS STRICTLY PROHIBITED.

A&E PROJECT #	---
DRAWN BY	WCG
CHECKED BY	EBU

REVISIONS		
NO.	DATE	DESCRIPTION
1	08/04/11	ISSUED FOR REVIEW
2	09/04/11	ISSUED FOR CONSTRUCTION
3	10/11/11	ISSUED FOR CONSTRUCTION



Know what's below.
Call before you dig.

SITE NAME

**PCT SE
PAPER GA**

TOWER OWNER / SITE NUMBER

AMERICAN TOWER

DESIGN TYPE

GREENFIELD

SHEET TITLE

TITLE SHEET

DRAWING NO.

T1

REVISION NO.

1

Owner: Plum Creek Timberlands, LP
Site Address: S. Hwy 198, Dublin, GA 31027
County: Laurens
Land District: 52nd G.M.D.
Land Section: N/A
Land Lot: N/A
Parcel ID: Portion of 203 064
Zoned: A
Area: 1173.3 Acres ±
Flood Zone: Zone A

Owner: Plum Creek Timberlands, LP
Site Address: S. Hwy 198, Dublin, GA 31027
County: Laurens
Land District: 52nd G.M.D.
Land Section: N/A
Land Lot: N/A
Parcel ID: Portion of 203 064
Zoned: A
Area: 1173.3 Acres ±
Flood Zone: Zone A

SITE ▲

VICINITY MAP

This survey was prepared for the exclusive use of American Tower and exclusively for the transfer of the leasehold and the rights of easement shown hereon and shall not be used as an exhibit or evidence in the transfer of the subject property nor any portion or portions thereof.

The outer boundary of the subject property as shown hereon was established using a combination of deeds of record, plats of record, and some field work. However, a complete boundary survey was not performed for this drawing.

Equipment Used:
Angular & Linear: Topcon GTS-225

The field data upon which this survey is based was collected from multiple control points and was not closed.

This survey has been calculated for closure and is found to be accurate to within one foot in 100,000+ feet.

The 1' contours shown on this plat are based on U.S.G.S. datum and have a vertical accuracy of $\pm 0.5'$. Contours outside the immediate site area are approximate.

No portion of the Lease Area or Ingress-Egress

The utilities shown hereon are based upon an above ground field

This survey was prepared without benefit of a title report which may reveal additional conveyances, easements, or

rights-of-way not shown hereon.

[illegible]

AMERICAN TOWER®
AMERICAN TOWER CORPORATION
900 Circle 75 Parkway, Suite 300
Atlanta, Georgia 30339
: 770-953-9400; Fax: 770-952-4999

Ecosystem Survey for

Date:	03 June 2015
Land District:	52nd G.M.D.
Land Section:	N/A
Land Lot:	N/A
City:	(unincorporated)
County:	Laurens
State:	Georgia
cal Project Number:	2015.010
"PCT SE Paper GA - 201440"	

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N/F
SP Fiber Technologies
Southeast LLC
Parcel ID: 203 013
Zoned: A

N/F
Kenneth H. &
Beverly H. Beacham
Parcel ID: 203 006
Zoned: A

N/F
Neil W. Fraser
Parcel ID: 203 074
Zoned: A

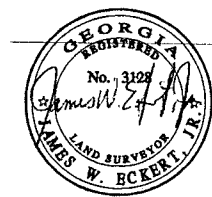
N/F
Eddie A. Beacham
Parcel ID: 203 001
Zoned: A

Proposed 100'x100'-
Lease Area
(Lease Rights to be Acquired,
See Sheet 6)

Centerline Proposed
30' Ingress-Egress
& Utility Easement
(Easement Rights to be Acquired,
See Sheets 2 - 5)

N/F
Marlon R. Freeman, Sr.
Marlon R. Freeman, Jr.
Parcel ID: 180 025
Zoned: A

GRAPHIC SCALE IN FEET
Scale: 1" = 1,200'



LEGNDO

PCB	POINT OF BEGINNING
PMN	FROM PMN SET
PPB	PPB PMN FINDING
PC	CONCRETE ENVIRONMENT FOUND
PP	UTILITY POLE
SOAH	SOAH POLE
PP	FLAC POLE
SWMT	SANITARY SEWER MANHOLE
STOM	STORM DRAIN MANHOLE
NVH	NVH
HY	HYDRANT
EC	EDGE OF PAVEMENT
TC	TOP OF CURB
BC	RACK OF CURB
BT	BOTTOM OF WALL
DW	DRENCH DRAIN
UNP	UNPaved SURF
CC	CONCREGATED METAL PIPE
CVC	CONCREGATED VULCANIZED RUBBER PIPE
PVC	POLYVINYL CHLORIDE PIPE
W	WIRE ANCHOR
TR	TRANSVERSE
JR	JUNCTION BOX
SRCS	SOURCE
WNCB	WATER NING CATCH BASIN
DWCB	DRAIN WING CATCH BASIN
WV	WATER VALVE
CO	CURB
SV	SEWER CLEAN-OUT
WV	WATER VALVE
NV	NOW OF FORMERLY

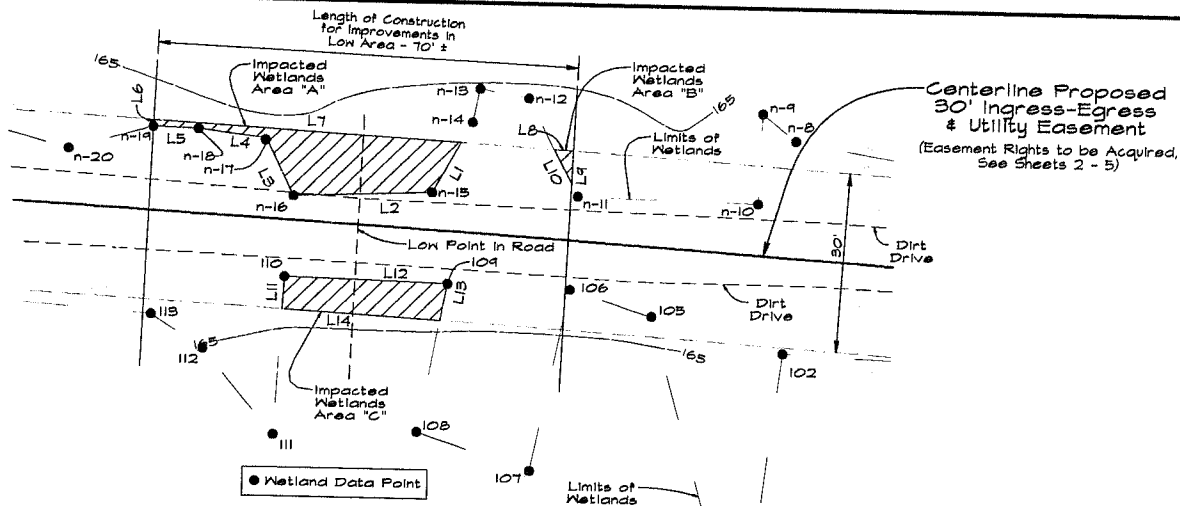
LINE	Bearing	Distance
L1	S28°37'05"W	9.66'
L2	S87°37'37"W	23.11'
L3	N25°56'54"W	10.55'
L4	N83°06'22"W	11.47'
L5	N88°30'50"W	7.50'
L6	N02°22'37"E	1.06'
L7	S86°58'13"E	51.30'

LINE	Bearing	Distance
L8	S86°40'58"E	3.22'
L9	S02°22'37"W	5.56'
L10	N27°26'00"W	6.41'

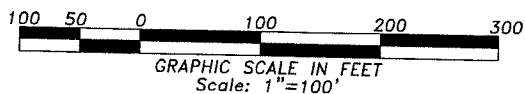
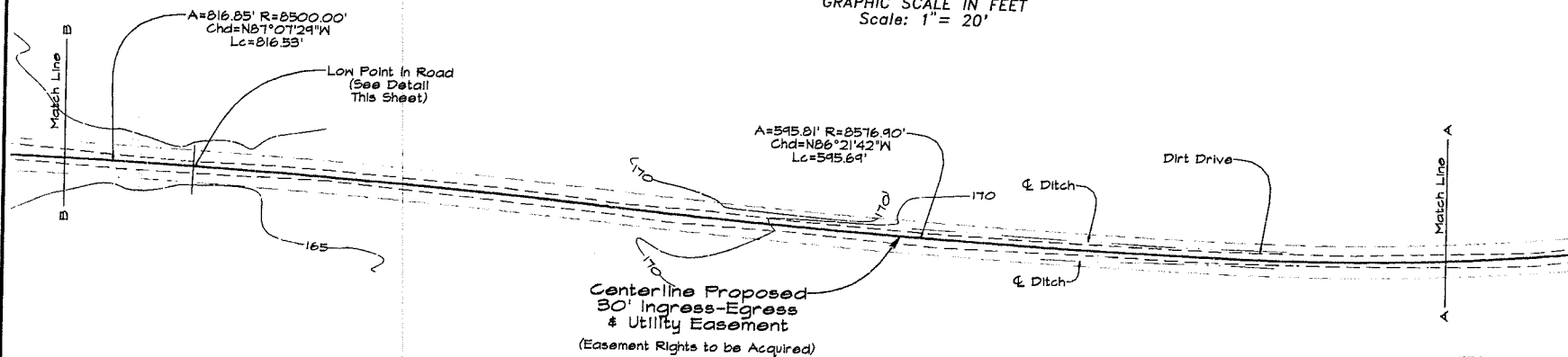
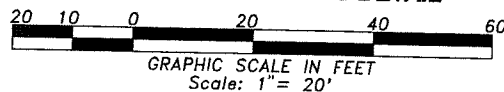
WETLANDS AREA "C"		
LINE	Bearing	Distance
L11	N03°08'44"E	5.47'
L12	S88°27'51"E	27.16'
L13	S10°45'51"W	6.26'
L14	N86°53'45"W	26.32'

WETLANDS AREA "A" = 296.6 Sq. Ft. (0.0068 Acres)
WETLANDS AREA "B" = 9.0 Sq. Ft. (0.0002 Acres)
WETLANDS AREA "C" = 155.9 Sq. Ft. (0.0036 Acres)

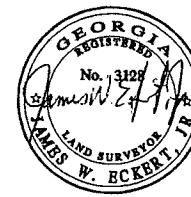
TOTAL AREA = 461.5 Sq. Ft. (0.0106 acres)



IMPACTED WETLANDS DETAIL




LEGEND	
POB	POINT OF BEGINNING
IRON PIN	IRON PIN FOUND
IFT	IRON FIND BEHIND
CMF	CONCRETE MONUMENT FOUND
UTL	UTILITY POLE
LP	LIGHT POLE
SSWH	SANITARY SEWER MANHOLE
SDWH	SEWER DRAIN MANHOLE
FI	FIRE HYDRANT
FP	FOUR OF PAYMENT
EC	EDGE OF CURB
BC	BACK OF CURB
OT	OUTSIDE
BW	BOTTOM OF WALL
DU	OVERHEAD UTILITY
UN	UNDERGROUND UTILITY
CMF	CORRUGATED METAL PIPE
RMF	REINFORCED CONCRETE PIPE
W	WATER
GR	GRASS ANCHOR
TS	TRANSFORMER
JR	JUNCTION ROD
SWC	SINGLE RING CATCH BASIN
DR	DOUBLE RING CATCH BASIN
CLF	CHAIN LINK FENCE
WV	WATER VALVE
WM	WATER METER
SEF	SEWER CLEAN-OUT
CV	CAL VALVE
NYF	NOR OR FORMERLY

[illegible]

civilsurvey, Inc.
93 Holly Grove Road
Griffin, Georgia 30224
404.925.8774

DRAWN BY: JAW	CHECKED BY: JAW	APPROVED BY: JAW
---------------	-----------------	------------------


 Easement Survey for
AMERICAN TOWER*
 AMERICAN TOWER CORPORATION
 900 Circle 75 Parkway, Suite 300
 Atlanta, Georgia 30338
 Tel: 770-953-9400; Fax: 770-952-4899

Date: 03 June 2015
Land District: S2nd G.M.D.
Land Section: N/A
Land Lot: N/A
City: (unincorporated)
County: Laurens
State: Georgia
cal Project Number: 2015.010
"PCT SE Paper GA - 201440

"PCT SE Paper GA - 201440

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of 7

All that tract or parcel of land lying and being in the 52nd G.M.D., Laurens County, Georgia, and being more particularly described as containing 1173.3 acres, more or less, and being a portion of Tax Parcel ID 203 064 and being bounded on the east by State Highway 199, on the south by Interstate 16, and on the west by the Oconee River.

All that tract or parcel of land lying and being in the 52nd G.M.D., Laurens County, Georgia, and being more particularly described as follows:

To find the Point of Beginning, COMMENCE at a point located on the western right of way of State Highway 199, said point being 5284.5 feet, more or less, as measured along said right of way in a northerly direction from the intersection of said right of way with the northern right of way of Interstate 16;

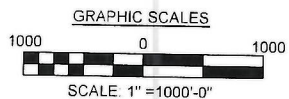
Thence, leaving said right of way and running South 63°37'03" West, 99.34 feet to a point;
Thence, South 74°10'35" West, 167.24 feet to a point;
Thence, 151.56 feet along a curve to the right, having a radius of 500.00 feet and being
scribed by a chord bearing South 82°51'36" West, 150.98 feet to a point;
Thence, North 88°27'23" West, 36.97 feet to a point;
Thence, 103.33 feet along a curve to the left, having a radius of 400.00 feet and being
scribed by a chord bearing South 84°08'34" West, 103.05 feet to a point;
Thence, South 76°44'31" West, 257.33 feet to a point;
Thence, 624.39 feet along a curve to the right, having a radius of 2400.00 feet and being
scribed by a chord bearing South 84°11'43" West, 622.64 feet to a point;
Thence, 595.81 feet along a curve to the right having a radius of 8576.90 feet and being
scribed by a chord bearing North 86°21'42" West, 595.69 feet to a point;
Thence, 816.85 feet along a curve to the left having a radius of 8500.00 feet and being
scribed by a chord bearing North 87°07'29" West, 816.53 feet to a point;
Thence, North 89°52'40" West, 12.84 feet to a point;
Thence, 227.94 feet along a curve to the right, having a radius of 350.00 feet and being
scribed by a chord bearing North 87°13'13" West, 225.93 feet to a point;
Thence, North 52°33'47" West, 185.63 feet to a point;
Thence, North 55°47'03" West, 143.88 feet to a point;
Thence, 108.31 feet along a curve to the left, having a radius of 250.00 feet and being
scribed by a chord bearing North 68°11'43" West, 107.46 feet to a point;
Thence, North 80°36'23" West, 333.68 feet to a point;
Thence, 103.68 feet along a curve to the right, having a radius of 50.00 feet and being
scribed by a chord bearing North 21°12'05" West, 86.08 feet to a point;
Thence, 142.35 feet along a curve to the right having a radius of 536.20 feet and being
scribed by a chord bearing North 45°48'33" East, 141.93 feet to a point;
Thence, 45.99 feet along a curve to the right having a radius of 200.00 feet
and being scribed by a chord bearing North 60°00'09" East, 45.89 feet to a point;
Thence, North 66°35'26" East, 78.36 feet to a point;
Thence, 83.07 feet along a curve to the left, having a radius of 100.00 feet and being
scribed by a chord bearing North 42°47'37" East, 80.70 feet to a point;
Thence, North 18°59'48" East, 58.93 feet to a point;
Thence, 105.41 feet along a curve to the left, having a radius of 200.00 feet and being
scribed by a chord bearing North 03°53'54" East, 104.19 feet to a point;
Thence, 70.70 feet along a curve to the right having a radius of 340.15 feet and being
scribed by a chord bearing North 05°10'36" East, 168.91 feet to a point;
Thence, North 17°33'11" East, 84.82 feet to a point;
Thence, 108.54 feet along a curve to the right, having a radius of 200.00 feet and being
scribed by a chord bearing North 33°05'59" East, 107.21 feet to a point;
Thence, North 48°38'47" East, 63.50 feet to a point;
Thence, 75.99 feet along a curve to the left, having a radius of 50.00 feet and being
scribed by a chord bearing North 05°06'22" East, 68.89 feet to a point;
Thence, North 38°26'02" West, 12.28 feet to a point;
Thence, South 51°33'58" West, 50.00 feet to a point and the true POINT OF BEGINNING;

Thence running, North $38^{\circ}26'02''$ West, 100.00 feet to a point;
Thence, North $51^{\circ}33'58''$ East, 100.00 feet to a point;
Thence, South $38^{\circ}26'02''$ East, 100.00 feet to a point;
Thence, South $51^{\circ}33'58''$ West, 100.00 feet to a point and the true POINT OF BEGINNING.

Said tract contains 0.2296 acres (10,000 square feet), more or less.

Together with a 30' Ingress-Egress & Utility Easement lying and being in the 52nd G.M.D., Laurens County, Georgia, and being more particularly described by the following centerline data:

BEGINNING at a point located on the western right of way of State Highway 199, said point being 5284.5 feet, more or less, as measured along said right of way to a northerly direction from the intersection of said right of way with the northerly right of way of Interstate 15; Thence leaving said right of way and running, South 63°37'03" West, 99.34 feet to a point; Thence, South 74°10'35" West, 167.24 feet to a point; Thence, 151.56 feet along a curve to the right, having a radius of 500.00 feet and being described by a chord bearing South 82°51'36" West, 150.98 feet to a point; Thence, North 88°27'23" West, 36.97 feet to a point; Thence, 103.33 feet along a curve to the left, having a radius of 400.00 feet and being described by a chord bearing South 84°08'34" West, 103.05 feet to a point; Thence, South 76°44'31" West, 237.15 feet to a point; Thence, 624.39 feet along a curve to the right, having a radius of 2400.00 feet and being described by a chord bearing South 84°11'43" West, 622.64 feet to a point; Thence, 595.81 feet along a curve to the right having a radius of 8576.90 feet and being described by a chord bearing North 86°21'42" West, 595.69 feet to a point; Thence, 816.85 feet along a curve to the left having a radius of 8500.00 feet and being described by a chord bearing North 87°07'29" West, 816.53 feet to a point; Thence, North 89°52'40" West, 12.84 feet to a point; Thence, 227.74 feet along a curve to the right, having a radius of 350.00 feet and being described by a chord bearing North 88°13'13" West, 223.93 feet to a point; Thence, North 52°33'47" West, 185.63 feet to a point; Thence, North 55°47'03" West, 143.88 feet to a point; Thence, 108.31 feet along a curve to the left, having a radius of 250.00 feet and being described by a chord bearing North 68°11'43" West, 107.46 feet to a point; Thence, North 80°36'23" West, 333.68 feet to a point; Thence, 103.68 feet along a curve to the right, having a radius of 50.00 feet and being described by a chord bearing North 21°12'05" West, 86.08 feet to a point; Thence, 142.35 feet along a curve to the right having a radius of 536.20 feet and being described by a chord bearing North 45°48'33" East, 141.93 feet to a point; Thence, 45.99 feet along a curve to the right having a radius of 200.00 feet and being described by a chord bearing North 60°00'09" East, 45.89 feet to a point; Thence, North 66°35'26" East, 78.36 feet to a point; Thence, 83.07 feet along a curve to the left, having a radius of 100.00 feet and being described by a chord bearing North 42°47'37" East, 80.70 feet to a point; Thence, North 18°59'48" East, 58.93 feet to a point; Thence, 105.41 feet along a curve to the left, having a radius of 200.00 feet and being described by a chord bearing North 03°53'54" East, 104.19 feet to a point; Thence, 170.70 feet along a curve to the right having a radius of 340.15 feet and being described by a chord bearing North 03°10'36" East, 168.91 feet to a point; Thence, North 17°33'11" East, 194.82 feet to a point; Thence, 108.54 feet along a curve to the right, having a radius of 200.00 feet and being described by a chord bearing North 33°05'59" East, 107.21 feet to a point; Thence, North 48°38'47" East, 63.50 feet to a point; Thence, 75.99 feet along a curve to the left, having a radius of 50.00 feet and being described by a chord bearing North 05°06'22" East, 68.89 feet to a point; Thence, North 38°26'02" West, 12.28 feet to the ENDING of a point,



AERIAL SITE PLAN
SCALE: 1" = 1000'-0"

TOWER OWNER:



DEVELOPER:

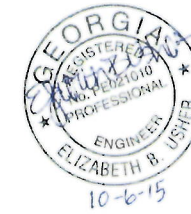
TELECOM DEVELOPMENT
SERVICES LLC

A&E FIRM:
TOWERSOURCE
185 OLD ALABAMA ROAD, SUITE 1000
ROSWELL, GA 30076
TEL: 678-999-2228
FAX: 678-999-2235
OWNER: ELIZABETH USHER

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A&E PROJECT #	--
DRAWN BY	WCG
CHECKED BY	EBU

REVISIONS		
NO.	DATE	DESCRIPTION
A	06/24/15	ISSUED FOR REVIEW
D	07/15/15	ISSUED FOR CONSTRUCTION
1	09/15/15	ISSUED FOR CONSTRUCTION



SITE NAME
**PCT SE
PAPER GA**

TOWER OWNER / SITE NUMBER
AMERICAN TOWER

DESIGN TYPE
GREENFIELD

SHEET TITLE
AERIAL MAP

DRAWING NO
A1

REVISION NO
1

GENERAL NOTES

- ALL CONSTRUCTION TO COMPLY WITH 2012 BUILDING CODES
- CONTRACTOR IS TO COMPLY WITH THE REQUEST FOR QUOTATION (RFQ) AND CONSTRUCTION SPECIFICATIONS (LATEST REVISION) & BUILDING MANUFACTURER'S DRAWINGS, ALL PREVIOUSLY PROVIDED BY DEVELOPER.
- DIMENSIONS TO ALL EXISTING SITE FEATURES SHALL BE FIELD VERIFIED BY THE CONTRACTOR & ANY DISCREPANCIES SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE.
- THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF EXISTING UTILITIES, PIPES, OR ANY OTHER SUBSURFACE STRUCTURES PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL CONTACT THE LOCAL UTILITY LOCATING SERVICE 48 HRS PRIOR TO DIGGING, DRILLING, OR BLASTING.
- DEVELOPER'S REPRESENTATIVE SHALL BE NOTIFIED IN WRITING OF ANY CONDITIONS THAT VARY FROM THE PLANS. THE CONTRACTOR'S WORK SHALL NOT VARY FROM THE PLANS WITHOUT THE EXPRESSED WRITTEN APPROVAL OF DEVELOPER'S CONSTRUCTION PROJECT MANAGER OR DEVELOPER'S REPRESENTATIVE.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE ALL DRAWINGS & SPECIFICATIONS AND TO COORDINATE HIS WORK WITH THE WORK OF ALL OTHERS TO ENSURE THAT WORK PROGRESSION IS NOT INTERRUPTED.
- CONTRACTOR SHALL COORDINATE THE CONSTRUCTION SCHEDULE WITH THE PROPERTY OWNER AS TO AVOID ANY INTERRUPTIONS WITH THE PROPERTY OWNER'S OPERATIONS
- CONTRACTOR SHALL KEEP THE PROJECT SITE FREE FROM ACCUMULATION OF WASTE MATERIALS & RUBBISH AT ALL TIMES DURING THE CONSTRUCTION PERIOD & SHALL REMOVE ALL WASTE MATERIALS & RUBBISH FROM THE PROJECT SITE AT THE COMPLETION OF WORK. EXCEPT THOSE SPECIFICALLY REQUIRED BY THE CONTRACT DOCUMENTS TO BE LEFT FOR THE OWNER'S MAINTENANCE.
- THE CONTRACTOR SHALL RESTORE ALL PROPERTY TO ITS PRE-CONSTRUCTION CONDITION TO THE OWNER'S SATISFACTION.
- THE CONTRACTOR SHALL PROTECT EXISTING PROPERTY LINE MONUMENTATION. ANY DISTURBED, DAMAGED OR REMOVAL OF MONUMENTATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE UNDER THE SUPERVISION OF A REGISTERED LAND SURVEYOR.
- DAMAGE TO EXISTING STRUCTURES & UTILITIES SHALL BE REPAIRED OR REPLACED TO OWNER'S SATISFACTION AT THE CONTRACTOR'S EXPENSE. MAINTAIN FLOW FOR ALL UTILITIES.
- ALL UTILITY CONNECTIONS TO EXISTING SYSTEMS SHALL BE COORDINATED WITH THE OWNER OR OWNER'S REPRESENTATIVE AND THE UTILITY COMPANY PRIOR TO EACH CONNECTION.
- UNLESS OTHERWISE INDICATED, DEVELOPER SHALL OBTAIN & PROVIDE CONSTRUCTION PERMITS. THE CONTRACTOR SHALL OBTAIN AT HIS OWN EXPENSE, ALL REQUIRED LOCAL, CITY, STATE AND OR COUNTY CONSTRUCTION LICENSES. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL APPLY FOR & PROVIDE A CERTIFICATE OF OCCUPANCY
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING AND THE MAINTENANCE OF SURFACE FOR CONSTRUCTION.
- CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, & FEDERAL REGULATIONS.
- CONSTRUCTION WASTE MAY NEITHER BE BURNED NOR BURIED AND MUST BE TAKEN TO AN APPROVED LANDFILL
- SECURITY TO THE SITE SHALL BE MAINTAINED AT ALL TIMES.
- CONTRACTOR IS RESPONSIBLE FOR THE CONDITION OF THE SHELTER DURING AND AFTER CONSTRUCTION. THE EQUIPMENT SHELTER SHALL NOT BE USED FOR STORAGE OF TOOLS, CONSTRUCTION MATERIALS OR EQUIPMENT. CONTRACTOR SHALL ENSURE THE SHELTER IS CLEANED AT CONCLUSION OF CONSTRUCTION AND THE FLOOR CLEANED, WAXED, AND BUFFED TO SHINE.
- FOR GREENFIELD/NEW TOWERS SITES, CONTRACTOR IS RESPONSIBLE FOR ENSURING THE TOWER LIGHTS ARE MONITORED MORNING AND NIGHT EACH 24 HRS FROM THE TIME THE TOWER IS TOPPED OUT UNTIL SITE HAS ALARMS CONNECTED TO THE OPERATIONS SWITCH OR NOC. CONTRACTOR TO NOTIFY PROJECT MANAGER AT THE TIME THE TOWER IS TOPPED OUT TO FORWARD NOTIFICATION TO DEVELOPER.

STRUCTURAL STEEL NOTES

- STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION & ERECTION OF STRUCTURAL STEEL FOR BUILDINGS"
- ALL INTERIOR STRUCTURAL STEEL SHALL BE FINISHED WITH ONE COAT FABRICATOR'S NON-LEAD, RED OXIDE PRIMER. PRIMING SHALL BE PERFORMED AFTER SHOP FABRICATION TO THE GREATEST EXTENT POSSIBLE. ALL DIMS, SCRAPES, MARKS & WELDS IN THE PRIMED AREAS SHALL BE REPAIRED BY FIELD TOUCH-UP PRIOR TO COMPLETION OF THE WORK.
- ALL EXTERIOR STRUCTURAL STEEL SHALL BE GALVANIZED IN ACCORDANCE WITH THE SPECIFICATION ASTM A123 UNLESS OTHERWISE NOTED. GALVANIZING SHALL BE PERFORMED AFTER SHOP FABRICATION TO THE GREATEST EXTENT POSSIBLE. ALL DIMS, SCRAPES, MARKS & WELDS SHALL BE REPAIRED BY FIELD TOUCH-UP PRIOR TO COMPLETION OF THE WORK.
- HOLES SHALL NOT BE PLACED THROUGH STRUCTURAL STEEL MEMBERS EXCEPT AS SHOWN AND DETAILED ON THE DRAWINGS.
- CONNECTIONS
 - ALL WELDING SHALL BE DONE USING E70XX ELECTRODES AND SHALL CONFORM TO AISC AND AWS D1.1 WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION", 13th EDITION. AT THE COMPLETION OF WELDING, ALL DAMAGE TO GALVANIZED COATING SHALL BE REPAIRED.
 - BOLTED CONNECTIONS SHALL USE BEARING TYPE GALVANIZED ASTM A325 BOLTS (3/4") AND SHALL HAVE A MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE.
 - NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8" DIA GALVANIZED ASTM A307 BOLTS UNLESS NOTED OTHERWISE.
 - CONNECTION DESIGN BY FABRICATOR WILL BE SUBJECT TO REVIEW AND APPROVAL BY ENGINEER.

CONCRETE NOTES

- DESIGN & CONSTRUCTION OF ALL CONCRETE ELEMENTS SHALL CONFORM TO THE LATEST EDITION OF THE FOLLOWING APPLICABLE CODES: ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS", ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE".
- MIX DESIGN SHALL BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO PLACING CONCRETE.
- CONCRETE SHALL BE NORMAL WEIGHT, 6% AIR ENTRAINMENT (±1.5%) WITH A MAXIMUM 4" SLUMP AND A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3000 PSI UNLESS NOTED OTHERWISE.
- CONCRETE MATERIALS

PORTLAND CEMENT	ASTM C 150, TYPE I
REINFORCEMENT	ASTM A 185
NORMAL WEIGHT AGGREGATE	ASTM C 33
WATER	POTABLE
AD MIXTURES	NON-CHLORIDE
- REINFORCING DETAILS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI 315.
- REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, DEFORMED, UNLESS NOTED OTHERWISE. WWF SHALL CONFORM TO ASTM A185 UNLESS NOTED OTHERWISE. SPLICES SHALL BE CLASS "B" AND HOOKS SHALL BE ASTM STANDARD UNLESS NOTED OTHERWISE.
- MINIMUM COVER FOR REINFORCING STEEL

CONCRETE CAST AGAINST EARTH	3 IN
EXPOSED CONCRETE	#5 & LARGER - 2 IN #5 & SMALLER - 1 1/2 IN
NON-EXPOSED SLAB & WALL	3/4 IN
NON-EXPOSED BEAMS & COLUMNS	NON-CHLORIDE
- A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE IN ACCORDANCE WITH ACI 301, SECTION 4.2.4
- INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR SHALL BE PER MANUFACTURER'S RECOMMENDATIONS. NO REINFORCING SHALL BE CUT WITHOUT ENGINEER'S APPROVAL.
- CURING COMPOUNDS SHALL CONFORM TO ASTM C 309.
- AD MIXTURES SHALL CONFORM TO THE APPROPRIATE ASTM STANDARD AS REFERENCED IN ACI 301.
- DO NOT WELD OR TACK WELD REINFORCING STEEL.
- ALL PENETRATIONS SHALL BE IN PLACE PRIOR TO CONCRETE PLACEMENT.
- REINFORCEMENT SHALL BE COLD BENT WHENEVER BENDING IS REQUIRED.
- CONCRETE SHALL NOT BE PLACED IN WATER, ICE, OR ON FROZEN GROUND.
- DO NOT ALLOW CONCRETE SUBBASE TO FREEZE DURING CONCRETE CURING AND SETTING PERIOD
- FOR COLD WEATHER & HOT WEATHER PLACEMENT, CONFORM TO APPLICABLE ACI CODES AND RECOMMENDATIONS.

LEGEND

—X— FENCE	CIRCUIT BREAKER
—550— CONTOUR LINE	CODED NOTE NUMBER
— PROPERTY LINE / ROW	CHEMICAL GROUND ROD
— LEASE AREA	GROUND ROD
— EASEMENT	GROUND ROD WITH INSPECTION SLEEVE
DISCONNECT SWITCH	CADWELD TYPE CONNECTION
METER	COMPRESSION TYPE CONNECTION
—G— GROUND WIRE	

TOWER OWNER:



DEVELOPER

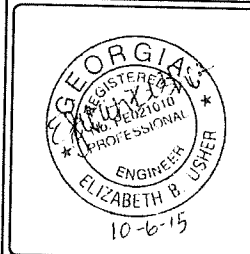
TELECOM DEVELOPMENT
SERVICES LLC



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A&E PROJECT #	—
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CHECKED BY	EBU

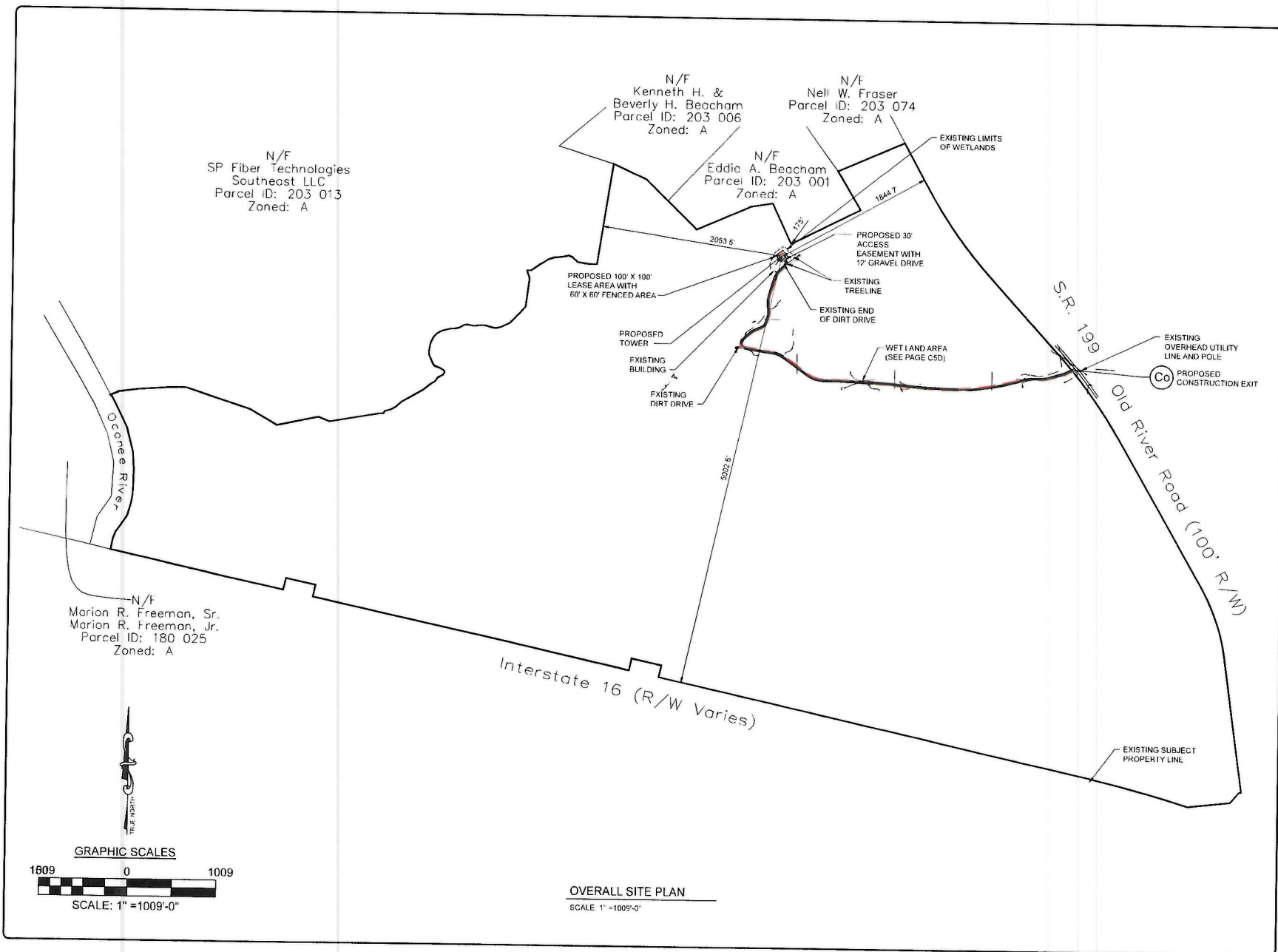
REVISIONS		
NO.	DATE	DESCRIPTION
A	10-24-15	ISSUED FOR REVIEW
B	11-15-15	ISSUED FOR CONSTRUCTION
C	11-15-15	ISSUED FOR CONSTRUCTION



SITE NAME	PCT SE PAPER GA
TOWER OWNER - SITE NUMBER	AMERICAN TOWER
DESIGN TYPE	GREENFIELD

SHEET TITLE	GENERAL NOTES
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DRAWING NO.	REVISION NO.
C1	1



TOWER OWNER



DEVELOPER

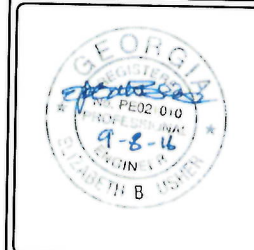
TELECOM DEVELOPMENT
SERVICES LLC

A&E FIRM:
POWERSOURCE
1614 OLD ATLANTA ROAD, SUITE 1000
ROSWELL, GA 30076
TEL: 678-960-7338
FAX: 678-960-7347
ENGINEER: DIZASCHER UNTER

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CHECKED BY EBU

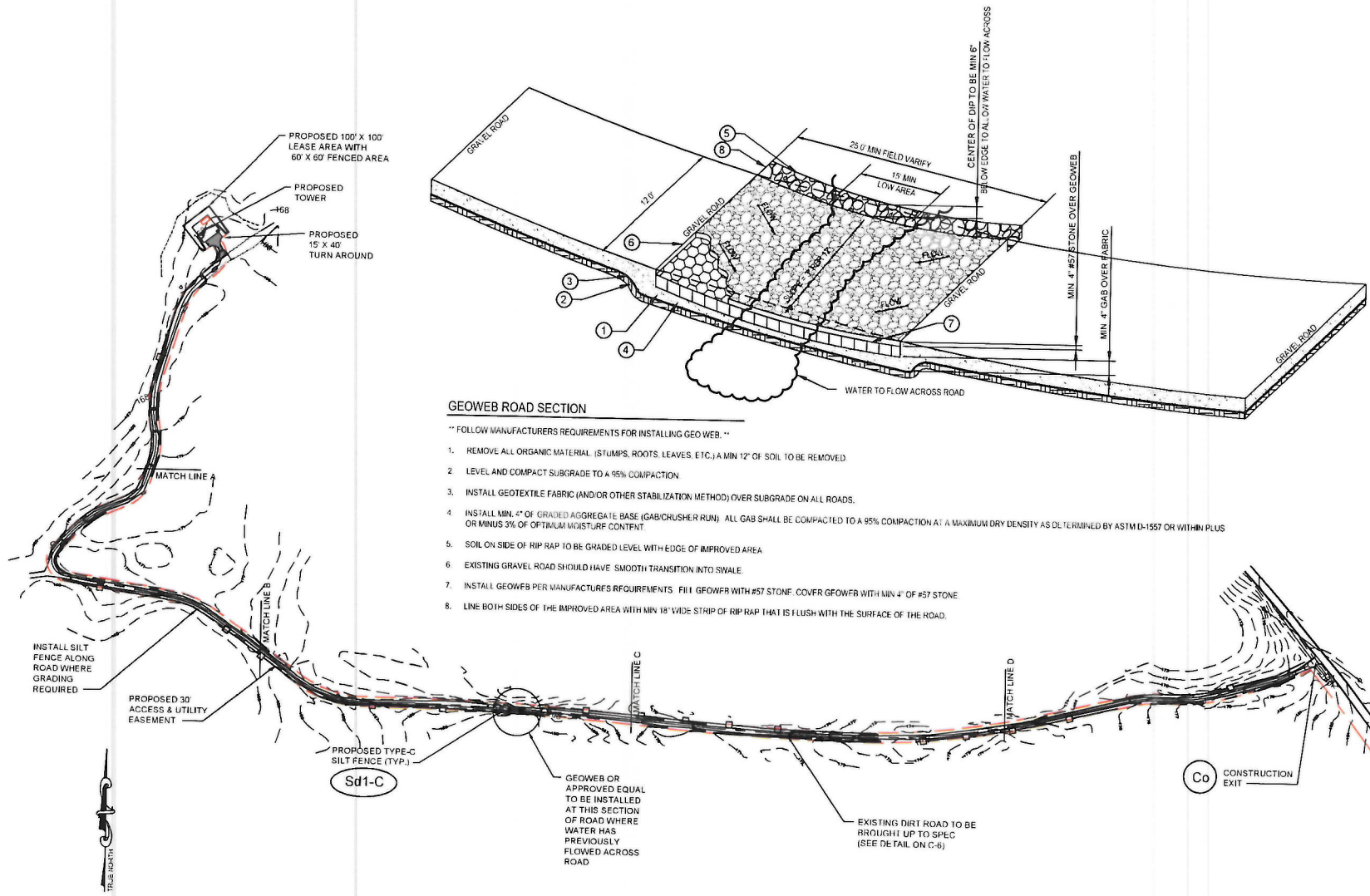
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NO.	DATE	DESCRIPTION
1	06/24/12	ISSUED FOR REVIEW
2	07/12/12	ISSUED FOR CONSTRUCTION
3	10/1/15	ISSUED FOR CONSTRUCTION



SITE NAME
**PCT SE
PAPER GA**
TOWER OWNER / SITE NUMBER
AMERICAN TOWER
DESIGN TYPE:
GREENFIELD

SHEET TITLE
**OVERALL SITE
PLAN**

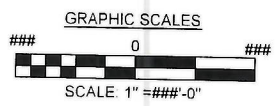
DRAWING NO. **C2** REVISION NO. **1**



GEOWEB ROAD SECTION

“ FOLLOW MANUFACTURERS REQUIREMENTS FOR INSTALLING GEO WEB. ”

1. REMOVE ALL ORGANIC MATERIAL (STUMPS, ROOTS, LEAVES, ETC.) A MIN 12" OF SOIL TO BE REMOVED.
2. LEVEL AND COMPACT SUBGRADE TO A 95% COMPACTION.
3. INSTALL GEOTEXTILE FABRIC (AND/OR OTHER STABILIZATION METHOD) OVER SUBGRADE ON ALL ROADS.
4. INSTALL MIN. 4" OF GRADED AGGREGATE BASE (GAB/CHUSHER RUN). ALL GAB SHALL BE COMPACTED TO A 95% COMPACTION AT A MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557 OR WITHIN PLUS OR MINUS 3% OF OPTIMUM MOISTURE CONTENT.
5. SOIL ON SIDE OF RIP RAP TO BE GRADED LEVEL WITH EDGE OF IMPROVED AREA.
6. EXISTING GRAVEL ROAD SHOULD HAVE SMOOTH TRANSITION INTO SWALE.
7. INSTALL GEOWEB PER MANUFACTURERS REQUIREMENTS. FILL GEOWEB WITH #57 STONE. COVER GEOWEB WITH MIN. 4" OF #57 STONE.
8. LINE BOTH SIDES OF THE IMPROVED AREA WITH MIN 18" WIDE STRIP OF RIP RAP THAT IS FLUSH WITH THE SURFACE OF THE ROAD.



GROUNDING AND EROSION CONTROL PLAN
SCALE: 1" = 40'-0"

TOWER OWNER:



DEVELOPER:

TELECOM DEVELOPMENT
SERVICES LLC

A&E FIRM:
POWERSOURCE
185 OLD ATLANTA ROAD SUITE 1000
ROSWELL, GA 30076
TEL: 678-990-7118
FAX: 678-990-7119
ENGINEER: ELIZABETH B. USHER

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A&E PROJECT #	---
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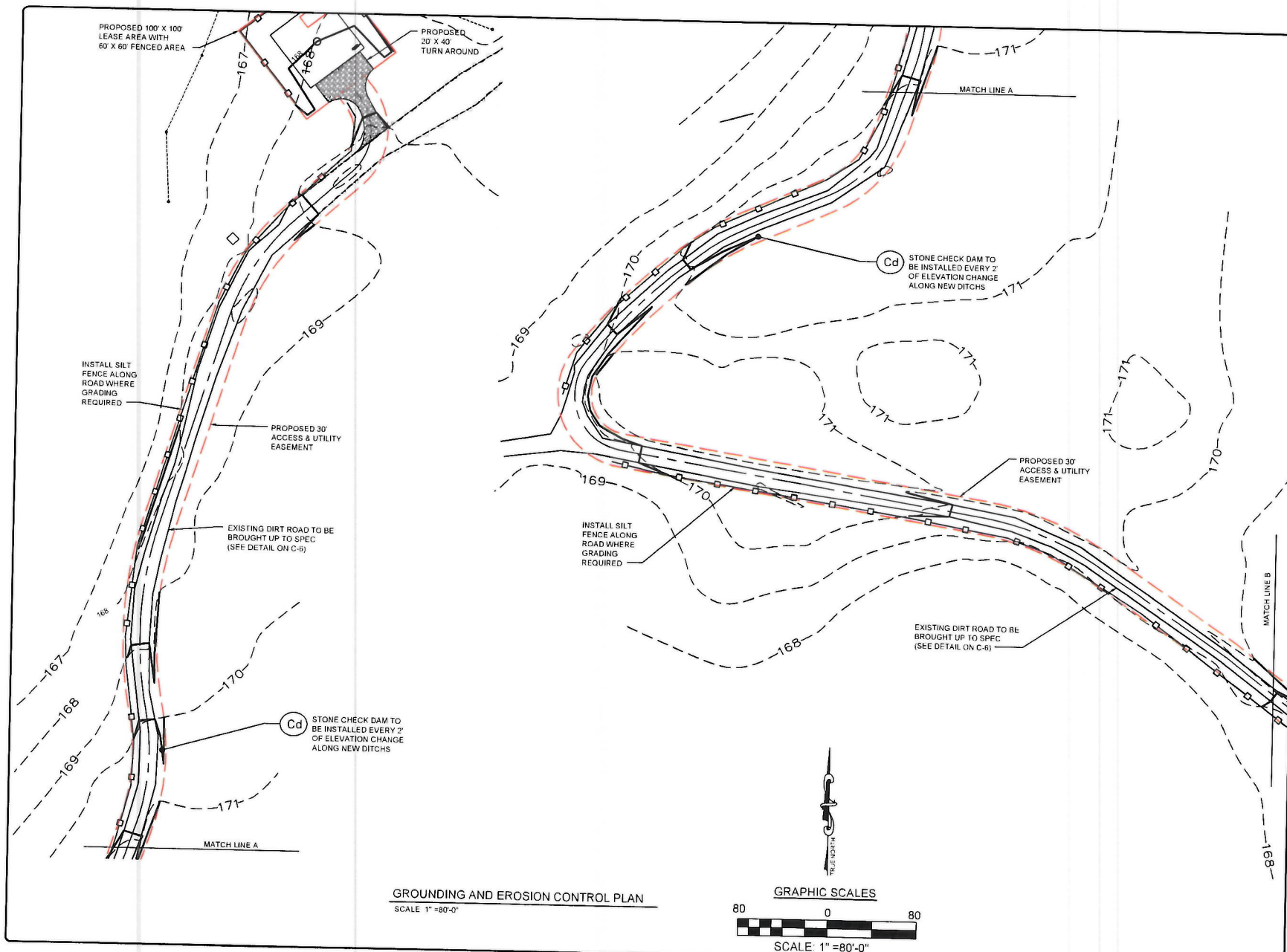
REVISIONS		
NO.	DATE	DESCRIPTION
A	08/24/15	ISSUED FOR REVIEW
B	09/01/15	ISSUED FOR CONSTRUCTION
C	10/01/15	ISSUED FOR CONSTRUCTION



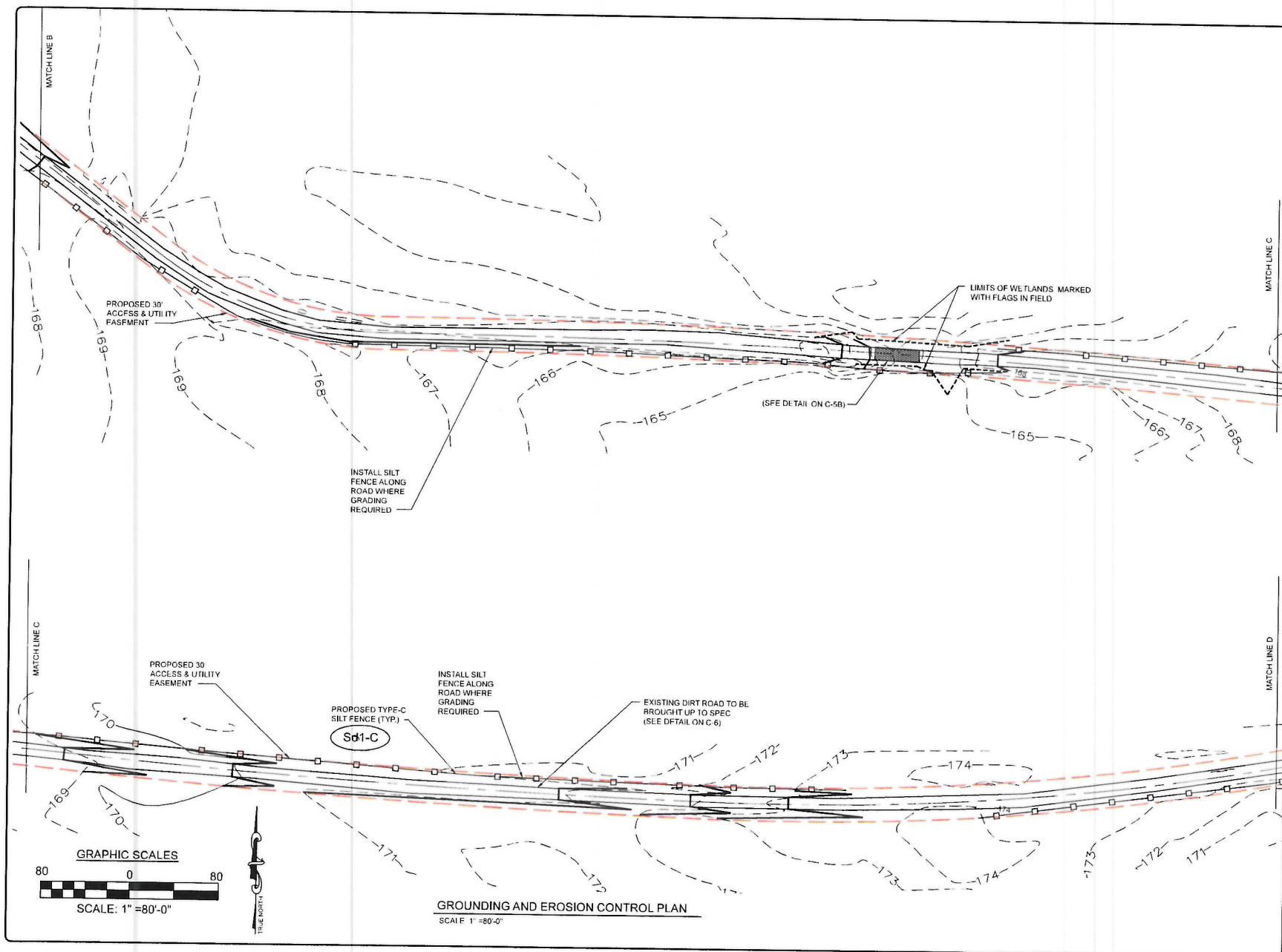
SITE NAME:
PCT SE PAPER GA
TOWER OWNER / SITE NUMBER:
AMERICAN TOWER
DESIGN TYPE:
GREENFIELD

SHEET TITLE:
GRADING & EROSION CONTROL PLAN

DRAWING NO.
C5B
REVISION NO.
1



TOWER OWNER													
DEVELOPER													
TELECOM DEVELOPMENT SERVICES LLC													
A&E FIRM													
POWERSOURCE 1850 OLD ALABAMA ROAD, SUITE 1000 ROSWELL, GA 30076 TEL: 678-950-2238 FAX: 678-990-2239 ENGINEER ELIZABETH B. USHER													
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A&E PROJECT #	--												
DRAWN BY	WCG												
CHECKED BY	EBU												
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2	08-14-15	ISSUED FOR CONSTRUCTION											
3	10-15-15	ISSUED FOR CONSTRUCTION											
 10-6-15													
SITE NAME													
PCT SE PAPER GA													
TOWER OWNER / SITE NUMBER													
AMERICAN TOWER													
DESIGN TYPE													
GREENFIELD													
SHEET TITLE													
GRADING & EROSION CONTROL PLAN													
DRAWING NO	REVISION NO												
C5C	1												

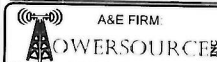


TOWER OWNER



DEVELOPER

TELECOM DEVELOPMENT
SERVICES LLC



A&E FIRM
TOWERSOURCE
1075 OLD ATLANTA ROAD SUITE 100
ROSWELL, GA 30076
TEL 770-990-7435
FAX 770-990-7437
ENGINEER ELIZABETH DUBER

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A&E PROJECT #	--
DRAWN BY	WCG
CHECKED BY	EBU

REVISIONS		
NO	DATE	DESCRIPTION
A	06/24/10	ISSUED FOR REVIEW
G	07/10/10	ISSUED FOR CONSTRUCTION
I	10/17/10	ISSUED FOR CONSTRUCTION



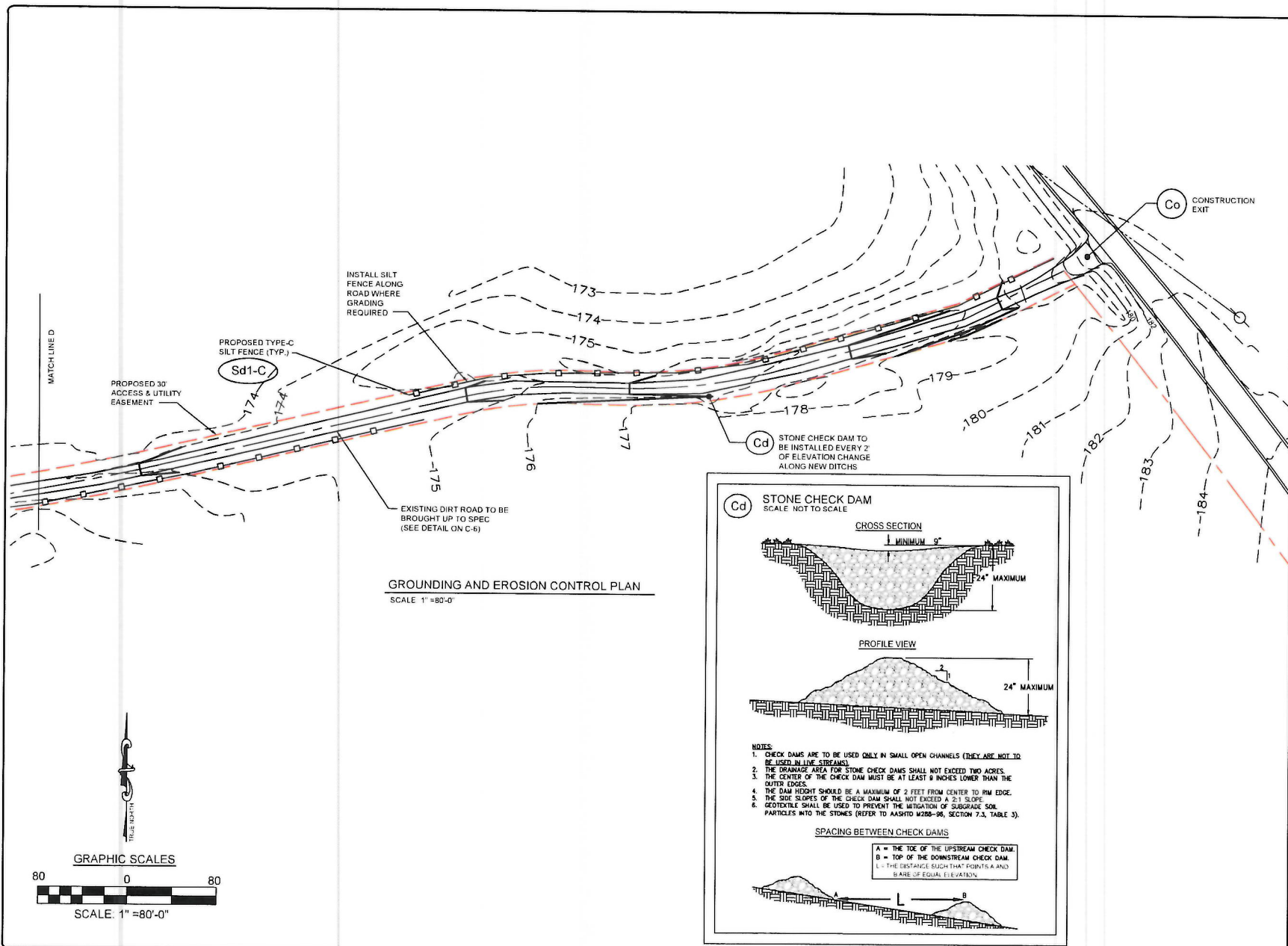
SITE NAME
**PCT SE
PAPER GA**

TOWER OWNER / SITE NUMBER
AMERICAN TOWER

DESIGN TYPE
GREENFIELD

SHEET TITLE
**GRADING & EROSION
CONTROL PLAN**

DRAWING NO C5D	REVISION NO 1
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TOWER OWNER:



DEVELOPER:

TELECOM DEVELOPMENT
SERVICES LLC



A&E FIRM:

COWERSOURCE
1815 D ALABAMA AVE STE 200
ROSWELL, GA 30076
TEL 678-990-2238
FAX 678-990-2239
ENGINEER ELIZABETH B. USHER

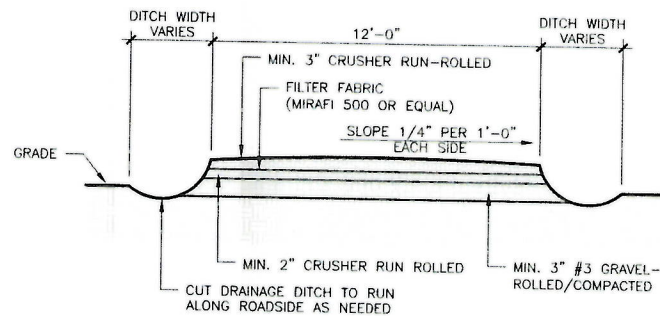
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A&E PROJECT #	--
DRAWN BY	WCG
CHECKED BY	EBU

REVISIONS		
NO.	DATE	DESCRIPTION
1	2/26/15	ISSUED FOR REVIEW
2	3/11/15	REQUIRED FOR CONSTRUCTION
3	10/1/15	ISSUED FOR CONSTRUCTION

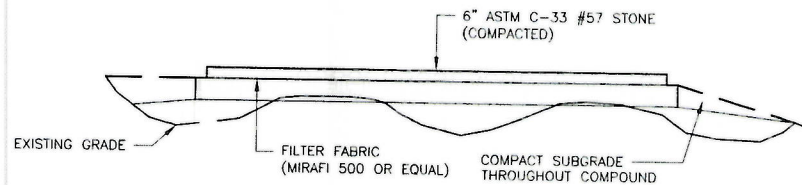


SITE NAME	
PCT SE PAPER GA	
TOWER OWNER / SITE NUMBER	
AMERICAN TOWER	
DESIGN TYPE	
GREENFIELD	
SHEET TITLE	
GRADING & EROSION CONTROL PLAN	
DRAWING NO.	REVISION NO.
C5E	1



ACCESS ROAD DETAIL

SCALE: N.T.S.



COMPOUND DETAIL

SCALE: N.T.S.

TOWER OWNER:



DEVELOPER:

TELECOM DEVELOPMENT
SERVICES LLC

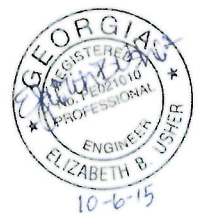
A&E FIRM:
POWERSOURCE

BUSINESS ADDRESS: 3000 SHILOH ROAD
ROSWELL, GA 30076
TEL: 678-990-2118
FAX: 678-990-2119
ENGINEER: ELIZABETH USHER

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A&E PROJECT #	--
DRAWN BY	WCG
CHECKED BY	EBU

REVISIONS		
NO.	DATE	DESCRIPTION
1	01/04/10	ISSUED FOR REVIEW
2	01/05/10	ISSUED FOR CONSTRUCTION
3	01/15/10	ISSUED FOR CONSTRUCTION



SITE NAME	PCT SE PAPER GA
TOWER OWNER / SITE NUMBER	AMERICAN TOWER
DESIGN TYPE	GREENFIELD

SHEET TITLE	ROAD PROFILE DETAILS
-------------	-------------------------

DRAWING NO.	REVISION NO.
C6	1

MAINTENANCE NOTES:

Southeast Paper Maintenance Plan:

3 months after the construction completion a comprehensive follow-up visit and inspection will be required. Once the inspection occurs notification to the PE of the completion of the inspection is required. If any of the issues outlined below are identified as a concern then the PE is required to address mitigation of issues.

1. Inspect disturbed areas and inspect for compaction issues which alter the contour as specified in the design.
2. Re-apply DS3 (permanent seeding) to all disturbed areas where initial application was not successful or signs of de-stabilization appear.
3. Inspect road to verify that there is no erosion within the road. Insure gravel on road has not eroded or become displaced. If gravel has eroded or become displaced identify if it has created issues with any of the ditches, inlets or other improvements.

Once the inspection is completed provide notice to the PE that the inspection is complete and provide details (if any) where issues have been identified or if there are any on site condition or variances to the site design. If any of the issues outlined below are identified as a concern then notification of the PE is required to address mitigation of issues.

After initial inspection and in subsequent intervals not to exceed 6 months* a follow up visit will be required.

1. Inspect road to verify that there is no erosion or displacement within the road.
2. Apply DS3 (permanent seeding) to all disturbed areas not otherwise stabilized.
3. Inspect for encroachment of vegetation to the improvements and eliminate potential impact due to shedding of foliage or root displacement.

* With regard to the timing of the follow-up site visits it is highly recommended one of the inspection be scheduled the first week of November. The site is surrounded by deciduous trees and blockages are at highest risk during the period just after the leaves drop.

TOWER OWNER:



DEVELOPER:

TELECOM DEVELOPMENT
SERVICES LLC

A&E FIRM:

TOWERSOURCE

1050 OLD MARIANNA ROAD, SUITE 1000
ROSWELL, GA 30076
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ENGINEER: ELIZABETH B. USHER

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A&E PROJECT #	---
DRAWN BY	WCG
CHECKED BY	EBU

REVISIONS		
REV	DATE	DESCRIPTION
1	06/24/15	ISSUED FOR REVIEW
2	06/25/15	ISSUED FOR CONSTRUCTION
3	06/25/15	ISSUED FOR CONSTRUCTION



SITE NAME

**PCT SE
PAPER GA**

TOWER OWNER / SITE NUMBER

AMERICAN TOWER

DESIGN TYPE

GREENFIELD

SHEET TITLE

MAINTENANCE
NOTES

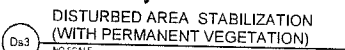
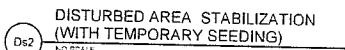
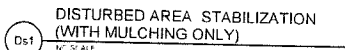
DRAWING NO.

C7

REVISION NO

1

1. ALL EXCAVATIONS ON WHICH CONCRETE IS TO BE PLACED SHALL BE SUBSTANTIALLY HORIZONTAL ON UNDISTURBED AND UNPROFEN SOIL AND BE FREE FROM LOOSE MATERIAL AND EXCESS GROUNDWATER. DEWATERING FOR EXCESS GROUNDWATER SHALL BE PROVIDED IF REQUIRED.
2. CONCRETE FOUNDATIONS SHALL NOT BE PLACED ON ORGANIC MATERIAL, IF SOUND SOIL IS NOT REACHED AT THE DESIGNATED EXCAVATION DEPTH. THE UNSATISFACTORY SOIL SHALL BE EXCAVATED TO ITS FULL DEPTH AND EITHER BE REPLACED WITH MECHANICALLY COMPACTED GRANULAR MATERIAL OR THE EXCAVATION BE FILLED WITH CONCRETE OF THE SAME QUALITY SPECIFIED FOR THE FOUNDATION.
3. ANY EXCAVATION OVER THE REQUIRED DEPTH SHALL BE FILLED WITH EITHER MECHANICALLY COMPACTED GRANULAR MATERIAL OR CONCRETE OF THE SAME QUALITY SPECIFIED FOR THE FOUNDATION. CRUSHED STONE MAY BE USED TO STABILIZE THE BOTTOM OF THE EXCAVATION. STONE, IF USED, SHALL NOT BE USED AS COMPILING CONCRETE THICKNESS.
4. AFTER COMPLETION OF THE FOUNDATION AND OTHER CONSTRUCTION BELOW GRADE, AND BEFORE BACKFILLING ALL EXCAVATIONS SHALL BE CLEAN OF UNSUITABLE MATERIAL SUCH AS VEGETATION, TRASH, DEBRIS, AND SO FORTH.
5. BACKFILLING SHALL
 - USE APPROVED MATERIALS CONSISTING OF EARTH, LOAM, SANDY CLAY, SAND AND GRAVEL, OR SOFT SHALE.
 - BE FREE FROM CLODS OR STONES OVER 2-1/2" MAXIMUM DIMENSIONS.
 - BE PLACED IN 8" LAYERS AND COMPACTED TO 95% STANDARD PROCTOR EXCEPT IN GRASSED/LANDSCAPED AREAS WHERE 90% STANDARD PROCTOR IS REQUIRED.
6. FILL PREPARATION
 - 1. REMOVE ALL VEGETATION, TOPSOIL, DEBRIS, WET AND UNSATISFACTORY SOIL, MATERIALS, OBSTRUCTIONS, AND DELETERIOUS MATERIALS FROM GROUND SURFACE PRIOR TO PLACING FILL. FLOW, STRIP OR BREAK UP SLOPED SURFACES STEEPER THAN 1:1 VERTICAL TO HORIZONTAL SO THAT MATERIAL WILL BOND WITH EXISTING SURFACE. WHEN SUBGRADE OR EXISTING GROUND SURFACE TO RECEIVE FILL HAS A DENSITY LESS THAN THAT REQUIRED FOR FILL, BREAK UP GROUND SURFACE TO DEPTH REQUIRED. FULVERIZE, MOISTURE-CONDITION OR AERATE SOIL AND RECOMPACT TO REQUIRED DENSITY.
7. PROTECT EXISTING GRAVEL SURFACING AND SUBGRADE IN AREAS WHERE EQUIPMENT LOADS WILL OPERATE. USE PLANKING OR OTHER SUITABLE MATERIALS DESIGNED TO SPREAD EQUIPMENT LOADS. REPAIR DAMAGE TO EXISTING GRAVEL SURFACING OR SUBGRADE WHERE SUCH DAMAGE IS DUE TO THE CONTRACTOR'S OPERATIONS. DAMAGED GRAVEL SURFACING SHALL BE RESTORED TO MATCH THE ADJACENT UNDAMAGED GRAVEL SURFACING AND SHALL BE OF THE SAME THICKNESS.
8. REPLACE EXISTING GRAVEL SURFACING ON AREAS FROM WHICH GRAVEL SURFACING IS REMOVED DURING CONSTRUCTION OPERATIONS. GRAVEL SURFACING SHALL BE REPLACED TO MATCH EXISTING ADJACENT GRAVEL SURFACING AND SHALL BE OF THE SAME THICKNESS. SURFACES OF GRAVEL SURFACING SHALL BE FREE FROM CORRUGATIONS AND WAVES. EXISTING GRAVEL SURFACING MAY BE EXCAVATED SEPARATELY AND REMOVED IF INSUFFICIENT AMOUNTS OF EARTH, ORGANIC MATTER, OR OTHER DELETERIOUS MATERIALS ARE REMOVED BEFORE GRAVEL SURFACING IS REPLACED. SUBGRADE SHALL BE GRADED TO CONFORM TO REQUIRED SUBGRADE ELEVATIONS, AND LOOSE OR DISTURBED MATERIAL SHALL BE THOROUGHLY COMPACTED. DEPRESSIONS IN THE SUBGRADE SHALL BE FILLED AND COMPACTED WITH APPROVED SELECTED MATERIAL. GRAVEL SURFACING MATERIAL MAY BE USED FOR FILLING DEPRESSIONS IN THE SUBGRADE. SUBJECT TO ENGINEER'S APPROVAL.
9. DAMAGE TO EXISTING STRUCTURES AND UTILITIES RESULTING FROM CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED / REPLACED TO OWNER'S SATISFACTION AT CONTRACTOR'S EXPENSE.
10. CONTRACTOR SHALL COORDINATE THE CONSTRUCTION SCHEDULE WITH PROPERTY OWNER SO AS TO AVOID INTERRUPTIONS TO PROPERTY OWNER'S OPERATIONS.
11. ENSURE POSITIVE DRAINAGE DURING AND AFTER COMPLETION OF CONSTRUCTION.
12. ALL CUT AND FILL SLOPES SHALL BE 2 HORIZONTAL TO 1 VERTICAL MAXIMUM, REMOVE ALL ORGANICS, ROCKS GREATER THAN 3" UNUSHD FILL AND OTHER DEBRIS TO AN AREA OFF SITE IN A LEGAL MANNER.



ACTIVITY SCHEDULE	
WORK DESCRIPTION	WORKING DAYS
INSTALLATION OF EROSION CONTROL MEASURES	1-2
CLEARING, GRUBBING, AND GRADING	3-5
MAINTAINING EROSION CONTROL MEASURES	6-8
TEMPORARY GRASSING	9-12
BUILDING CONSTRUCTION	13-19
FINAL LANDSCAPING GRASSING	20-23
REMOVING EROSION CONTROL MEASURES	24-26

THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES SHALL TAKE PLACE PRIOR TO OR CONCURRENT WITH LAND DISTURBING ACTIVITIES

1. ADDITIONAL EROSION CONTROL MEASURES WILL BE EMPLOYED WHERE DETERMINED NECESSARY BY ACTUAL SITE CONDITIONS.
2. PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY THE LIMITS OF DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS OR OTHER APPROPRIATE MEANS.
3. THE CONSTRUCTION OF THE SITE WILL INITIATE WITH THE INSTALLATION OF EROSION CONTROL MEASURES SUFFICIENT TO CONTROL SEDIMENT DEPOSITS AND EROSION.
4. THE CONTRACTOR SHALL CALL APPROPRIATE COUNTY FOR AN INSPECTION OF SOIL EROSION CONTROL MEASURES PRIOR TO BEGINNING OF LAND DISTURBANCE ACTIVITY.
5. ALL SEDIMENT CONTROL MEASURES MAINTAINED UNTIL ALL UPSTREAM GROUND WITHIN THE CONSTRUCTION AREA HAS BEEN COMPLETELY STABILIZED.
6. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE CHANGED FROM THAT SHOWN ON THE PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE FINAL PROPOSED DRAINAGE PATTERNS. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
7. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. PRIOR TO IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE SUFFICIENT EROSION CONTROL, ADDITIONAL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
8. THE CONTRACTOR SHALL REMOVE ACCUMULATED SILT WHEN THE SILT BARRIERS ARE MAINTAINED TO THE SIFT FENCE.
9. FAILURE TO INSTALL, OPERATE OR MAINTAIN EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB SITE UNTIL SUCH MEASURES ARE CORRECTED.
10. SILT BARRIERS TO BE PLACED AT DOWNSTREAM TOE OF ALL CUT AND FILL SLOPES.
11. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH SEEDING.

AGRICULTURAL LIMESTONE	4000 LBS./acre
FERTILIZER, 5-10-15	1500 lbs./acre
MULCH STRAW OR HAY	5000 lbs./acre

<u>SEED SPECIES</u>	<u>APPLICATION RATE/ACRE</u>	<u>PLANNING DATES</u>
MULLED COMMON BERMUDA GRASS	10lbs.	3-1 - 6-15
FESCUE	50lbs	9-1 -10-31
FESCUE RYE GRASS	50lbs. 50lbs.	11-1 -2-28
HAY MULCH FOR TEMPORARY COVER	5000lbs.	6-15 -8-31

B. TOPDRESSING APPLY WHEN PLANTS ARE 2 TO 4 INCHES TALL
FERTILIZER (AMMONIUM NITRATE 33.5%) 300 lbs./acre

C. SECOND-YEAR-FERTILIZER (5-10-15 OR EQUIVALENT) 800 lbs./acre

SEEDING EQUIPMENT
WHEN HYDRAULIC SEEDING AND FERTILIZING EQUIPMENT IS USED, NO GRADING AND SHAPING OR SEEDBED PREPARATION WILL BE REQUIRED. THE FERTILIZER, SEED AND WOOD CELLULOSE FIBER MULCH WILL BE MIXED WITH WATER AND APPLIED IN A SLURRY. ALL SLURRY INGREDIENTS MUST BE COMBINED TO FORM A HOMOGENEOUS MIXTURE AND SPREAD UNIFORMLY OVER THE AREA WITHIN ONE HOUR AFTER MIXTURE IS MADE. STRAW OR HAY MULCH AND ASPHALT EMULSION WILL BE APPLIED WITH BLOWER-TYPE MULCH SPREADING EQUIPMENT WITHIN 24 HOURS AFTER SEEDING. THE MULCH WILL BE SPREAD UNIFORMLY OVER THE AREA, LEAVING ABOUT 25 PERCENT OF THE GROUND SURFACE EXPOSED.

GRADE, SHAPE AND SMOOTH WHERE NEEDED TO PROVIDE FOR SAFE EQUIPMENT OPERATION AT SEEDING TIME AND FOR MAINTENANCE PURPOSES. THE LIME AND FERTILIZER IN DRY FORM WILL BE SPREAD UNIFORMLY OVER THE AREA IMMEDIATELY BEFORE SEEDBED PREPARATION. A SEEDBED WILL BE PREPARED BY SCARIFYING TO A DEPTH OF 1 TO 4 INCHES AS DETERMINED ON A CASE-BY-CASE BASIS. SEED WILL BE WELL PLUMPED, SMOOTHED AND FIRMED. SEEDING WILL BE DONE WITH CULTPACKER-SEEDER OR EQUIPMENT WITH OTHER MECHANICAL OR HAND SEEDER. SEED WILL BE DISTRIBUTED UNIFORMLY OVER A FRESHLY PREPARED SEEDBED. COVERED LIGHTLY. WITHIN 24 HOURS AFTER SEEDING, STRAW OR HAY MULCH WILL BE SPREAD MULCH WILL BE SPREAD AT LEAST LEAVING ABOUT 25 PERCENT OF THE GROUND SURFACE EXPOSED. IMMEDIATELY AFTER IT IS SPREAD, A DISK HARROW WITH OR WITHOUT A SET STRAIGHT OR A SPECIAL PACKER DISK MAY BE USED TO PRESS THE MULCH INTO THE SOIL.

11. CONTRACTOR SHALL REMOVE ALL EROSION & SEDIMENT CONTROL MEASURES AFTER COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF PERMANENT GROUND COVER.
12. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO OR CONCURRENT WITH LAND-DISTURBING ACTIVITIES.
13. ALL CUT CORRECTIVES MUST BE SURFACED ROUGHENED AND VEGETATED WITHIN SEVEN (7) DAYS OF THEIR CONSTRUCTION.
14. ALL FILL SLOPES WILL HAVE SILT FENCE AT TOE OF SLOPES.
15. ALL SEDIMENT AND EROSION CONTROL MEASURES WILL BE CHECKED DAILY AND ANY DEFICIENCIES NOTED WILL BE CORRECTED BY THE END OF EACH DAY. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY AFTER ON-SITE INSPECTION BY THE ISSUING AUTHORITY.
16. THE ONLY MATERIAL TO BE BURIED ON-SITE IS VEGETATIVE MATERIAL. CONSTRUCTION WASTE MAY NEVER BE BURIED NOR BURIED MATERIAL MUST BE TAKEN TO A STATE APPROVED LANDFILL.
17. A 25' MIN UNDISTURBED VEGETATIVE BUFFER ADJACENT TO ALL RUNNING STREAMS AND CREEKS WILL BE LEFT AND MAINTAINED.



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REVISIONS		
NO	DATE	DESCRIPTION
A	07/04/88	ISSUED FOR REVIEW
C	07/04/88	ISSUED FOR CONSTRUCTION
I	10/10/85	ISSUED FOR CONSTRUCTION



PCT SE
PAPER GA

AMERICAN TOWER

GREENFIELD

GRADING & SEDIMENT
CONTROL NOTES

CS 1

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